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IN THE CLAIMS

1-3. (Canceled).

4. (Currently Amended) The method according to claim 4 9, wherein said mutation

disrupts the interaction of the E4orf6 protein and the E1B-55kDa protein in said host cell.

5. (Canceled).

6. (Currently Amended) The method according to claim 1 9, wherein said packaging

cell is transiently transfected with said nucleic acid encoding said mutant adenovirus E4orf6

protein.

7. (Currently Amended) The method according to claim 4 9, wherein said packaging

cell is stably transfected with said nucleic acid encoding said mutant adenovirus E4orf6

protein.

8. (Currently Amended) The method according to claim + 2, wherein said nucleic

acid encoding said mutant adenovirus E4orf6 gene is carried by a plasmids, bacteriophage,

cosmid or retrovirus.

9. (Currently Amended) The method according to claim 1, A method of packaging a

recombinant viral vector, comprising the steps of:

(a) providing a packaging cell, said packaging cell containing and expressing a

nucleic acid encoding a mutant adenovirus E4orf6 protein, said E4orf6 protein containing at

least one mutation in the region encoding amino acids 230 to 260 at position 240, 241, 243,

244, 248, or 251;

(b) transfecting or infecting said packaging cell with a nucleic acid that encodes a

recombinant viral vector selected from the group consisting of adenovirus vectors and adeno-

associated virus vectors, wherein said vector lacks a functional gene encoding E4orf6 protein;

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and wherein said mutation renders said mutant adenovirus E4orf6 protein non-toxic to said

transfected cells;

(c) culturing said transfected cells under conditions that permit expression of the

mutant E4orf6 protein and the production of packaged recombinant viral vector therein; and

<u>then</u>

(d) collecting packaged recombinant viral vector from said cultured cells.

10. (Original) The method according to claim 9, in which said at least one

substitution mutation is a substitution of arginine for an amino acid selected from the group

consisting of glutamic acid, aspartic acid, serine, threonine, alanine and glutamine.

11. (Currently Amended) The method according to claim 4 9, wherein said nucleic

acid encoding said mutant adenovirus E4orf6 protein encodes (i) an arginine 241 to glutamic

acid substitution mutation, (ii) an arginine 243 to glutamic acid substitution mutation, or (iii)

both an arginine 241 to glutamic acid substitution mutation and an arginine 243 to glutamic

acid substitution mutation.

12. (Currently Amended) The method according to claim 4 9, wherein said nucleic

acid encoding said mutant adenovirus E4orf6 protein encodes (i) an arginine 240 to glutamic

acid substitution mutation, (ii) an arginine 251 to glutamic acid substitution mutation, or (iii)

both an arginine 240 to glutamic acid substitution mutation and an arginine 251 to glutamic

acid substitution mutation.

13. (Currently Amended) The method according to claim + 9, wherein said viral

vector is an adenovirus vector.

14. (Currently Amended) The method according to claim 1 9, wherein said viral

vector is an adeno-associated virus vector.

15. (Canceled).

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16. (Currently Amended) The packaging cell according to claim 15 23, wherein said at least one mutation disrupts the interaction of the E4orf6 protein with the E1B-55kDa

protein in a host cell.

17-20 (Canceled).

21. (Currently Amended) The packaging cell according to claim 15 23, wherein said

packaging cell is stably transfected with said nucleic acid encoding said mutant adenovirus

E4orf6 protein.

22. (Currently Amended) The packaging cell according to claim 15 23, wherein said

nucleic acid encoding said mutant adenovirus E4orf6 protein is carried by a plasmid,

bacteriophage, cosmid or retrovirus.

23. (Currently Amended) The packaging cell according to claim 15, A packaging

cell, said packaging cell containing and expressing a nucleic acid encoding a mutant

adenovirus E4orf6 protein, said E4orf protein containing at least one mutation in the region

encoding amino acids 230 to 260 wherein said at least one mutation comprises a substitution

mutation at position 240, 241, 243, 244, 248, or 251 that renders said protein non-toxic to a

host cell in which said protein is expressed.

24. (Original) The packaging cell according to claim 23, in which said at least one

substitution mutation is a substitution of arginine for an amino acid selected from the group

consisting of glutamic acid, aspartic acid, serine, threonine, alanine and glutamine.

25. (Currently Amended) The packaging cell according to claim 45 23, wherein said

nucleic acid encoding said mutant adenovirus E4orf6 gene encodes (i) an arginine 241 to

glutamic acid substitution mutation, (ii) an arginine 243 to glutamic acid substitution

mutation, or (iii) both an arginine 241 to glutamic acid substitution mutation and an arginine

243 to glutamic acid substitution mutation.

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26. (Currently Amended) The packaging cell according to claim 15 23, wherein said nucleic acid encoding said mutant adenovirus E4orf6 gene encodes (i) an arginine 240 to glutamic acid substitution mutation, (ii) an arginine 251 to glutamic acid substitution

mutation, or (iii) both an arginine 240 to glutamic acid substitution mutation and an arginine

251 to glutamic acid substitution mutation.

27. (Canceled).

28. (Currently Amended) The nucleic acid according to claim 27 31, in which said at

least one mutation disrupts the interaction of the E4orf6 protein with the E1B-55kDa protein

in a host cell.

29. (Currently Amended) The nucleic acid according to claim 27 31, wherein said

nucleic acid is a DNA.

30. (Currently Amended) The nucleic acid according to claim 27 31, wherein said

nucleic acid is a plasmid, bacteriophage, plasmid or retrovirus.

31. (Currently Amended) The nucleic acid according to claim 27, A nucleic acid

encoding a mutant adenovirus E4orf6 protein, said E4orf6 protein containing at least one

mutation in the region encoding amino acids 230 to 260 wherein said at least one mutation

comprises a substitution mutation at position 240, 241, 243, 244, 248, or 251 that renders said

protein non-toxic to a host cell in which said protein is expressed.

32. (Original) The nucleic acid according to claim 31, in which said sat least one

substitution mutation is a substitution of arginine for an amino acid selected from the group

consisting of glutamic acid, aspartic acid, serine, threonine, alanine and glutamine.

33. (Original) The nucleic acid according to claim 31, wherein said nucleic acid

encodes (i) an arginine 241 to glutamic acid substitution mutation, (ii) an arginine 243 to

glutamic acid substitution mutation, or (iii) both an arginine 241 to glutamic acid substitution

mutation and an arginine 243 to glutamic acid substitution mutation.

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34. (Original) The nucleic acid according to claim 31, wherein said nucleic encodes (i) an arginine 240 to glutamic acid substitution mutation, (ii) an arginine 251 to glutamic acid substitution mutation and an arginine 251 to glutamic acid substitution mutation.

35-41. (Canceled)